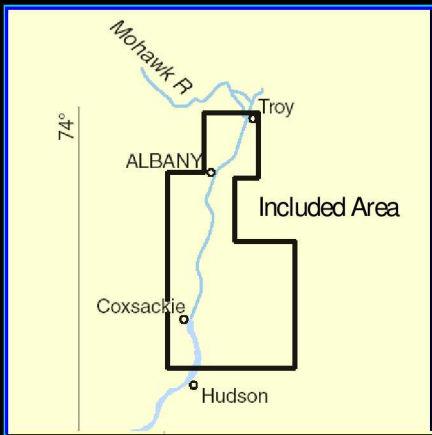


# **BookletChart<sup>TM</sup>**

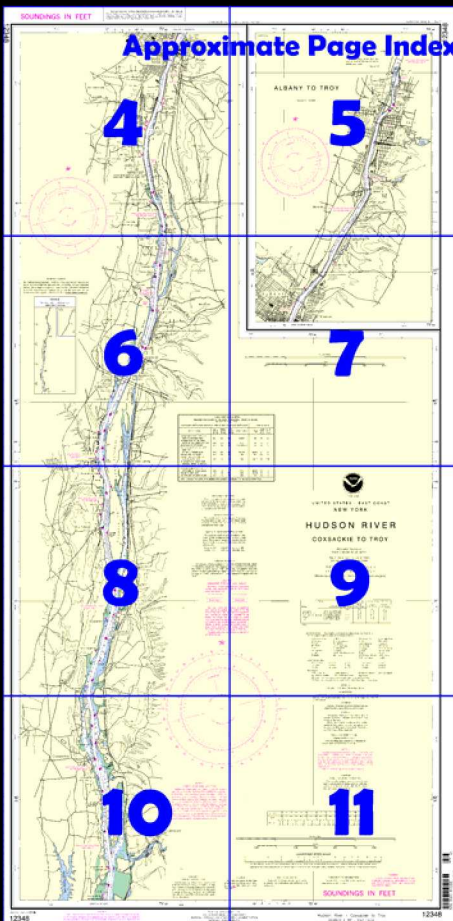
## ***Hudson River - Cossackie to Troy***

***(NOAA Chart 12348)***



A reduced scale NOAA nautical chart for small boaters. When possible, use the full size NOAA chart for navigation.

- ✓ Complete, reduced scale nautical chart
- ✓ Print at home for free
- ✓ Convenient size
- ✓ Up to date with all Notices to Mariners
- ✓ United States Coast Pilot excerpts
- ✓ Compiled by NOAA, the nation's chartmaker.



***Home Edition (not for sale)***



### What are Nautical Charts?

Nautical charts are a fundamental tool of marine navigation. They show water depths, obstructions, buoys, other aids to navigation, and much more. The information is shown in a way that promotes safe and efficient navigation. Chart carriage is mandatory on the commercial ships that carry America's commerce. They are also used on every Navy and Coast Guard ship, fishing and passenger vessels, and are widely carried by recreational boaters.

### What is a BookletChart™?

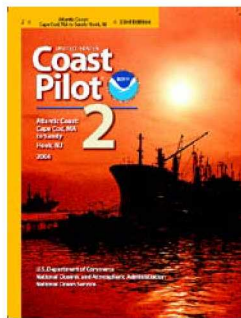
This BookletChart is made to help recreational boaters locate themselves on the water. It has been reduced in scale for convenience, but otherwise contains all the information of the full-scale nautical chart. The bar scales have also been reduced, and are accurate when used to measure distances in this BookletChart. See the Note at the bottom of page 5 for the reduction in scale applied to this chart.

Whenever possible, use the official, full scale NOAA nautical chart for navigation. Nautical chart sales agents are listed on the Internet at <http://www.NauticalCharts.NOAA.gov>.

This BookletChart does NOT fulfill chart carriage requirements for regulated commercial vessels under Titles 33 and 44 of the Code of Federal Regulations.

### Notice to Mariners Correction Status

This BookletChart has been updated for chart corrections published in the U.S. Coast Guard Local Notice to Mariners, the National Geospatial Intelligence Agency Weekly Notice to Mariners, and, where applicable, the Canadian Coast Guard Notice to Mariners. Additional chart corrections have been made by NOAA in advance of their publication in a Notice to Mariners. The last Notices to Mariners applied to this chart are listed in the Note at the bottom of page 7. Coast Pilot excerpts are not being corrected.



### [Coast Pilot 2, Chapter 12 excerpts]

(137) In the Hudson River above Kingston many shoals with depths less than 3 feet are in midriver or extend from the shore on either side. The bottom is rocky at many of the bar crossings. Most of the channels through the critical areas are marked with lights and buoys, but strangers in all except small boats are advised to take a pilot. Pilots are engaged at New York.

(149) **Coxsackie** is at Mile 108W. Berths, gasoline, electricity, water, and ice are

available at a yacht club at the north end of town. A State-owned 20-foot concrete launching ramp is also available at Coxsackie.

(151) A 32-foot buoyed **anchorage** basin is on the east bank of the river north of **Stuyvesant** about 3.1 miles above Coxsackie.

(152) A boatyard at **New Baltimore**, Mile 113.5W, can provide berths, electricity, gasoline, diesel fuel, water, storage, and marine supplies. A

launching ramp and a 20-ton mobile hoist are available; hull and engine repairs can be made. In June 1981, a reported depth of 20 feet was available at the fuel dock with 6 feet at the berths.

(153) **Coeymans**, Mile 115W, has a boatyard that can provide berths, electricity, gasoline, diesel fuel, water, ice, and a 12-ton lift; hull and engine repairs can be made.

(154) A submerged jetty, marked by daybeacons, is just E of Coeymans.

(157) **Castleton-on-Hudson**, Mile 119E, has a boat club that can provide berths, electricity, gasoline, diesel fuel, water, ice, and a launching ramp. Gin poles are available at the boat club for stepping masts. In June 1982, depths of 9 feet were reported alongside the docks.

(158) The Castleton Fire Department maintains a rescue vessel at the boat club for emergency medical assistance, firefighting, lifesaving, and damage control. The rescue vessel can be contacted through the Coast Guard on VHF-FM channel 16, or by telephone (518-272-5501).

(164) The Federal project depth is 32 feet from New York Harbor to Albany. Above the Port of Albany, the project depth is 14 feet to the Troy Lock and Dam.

(165) The restricted width of the river at Albany is not sufficient to permit vessels to swing at anchor without interfering with passing craft. However, in an emergency, vessels sometimes anchor in midstream to wait for berthing space.

(208) A yacht club is on the east side of the Hudson River at **Rensselaer** at Mile 126.4, about 0.2 mile south of the fixed highway bridge; berths, electricity, gasoline, diesel fuel, and water are available. In June 1981, reported depths of 15 feet were available on the west side of the yacht club dock with 8 feet on the east side. A municipal launching ramp is at Mile 127.2W.

(215) The **Troy Lock and Dam** is about 8 miles above Albany. The lock dimensions are: length 492.5 feet; width 44.4 feet; depth over upper miter sill 16.3 feet at normal pool level; and depth over lower miter sill 13 feet at lowest low water. The lift at the lowest stages is 17.3 feet. The mean range of **tide** is about 4.7 feet below the lock. (See **207.50 and 207.60**, chapter 2, for navigation regulations for the lock and operating regulations for the dam.) **Caution**

(216) The area within about 500 feet below the Troy Dam is extremely dangerous because of the turbulence caused by water discharge from the dam. The danger area is marked by buoys.

(217) The Hudson River above the Troy Lock and Dam joins with the New York State Canal System to form a connecting waterway westward to Lake Erie and Lake Ontario, and northward to Lake Champlain.

(218) The **New York State Canal System**, comprising Erie Canal, Oswego Canal, Cayuga and Seneca Canal, and Champlain Canal, is under the jurisdiction of the State of New York. Navigation on the State canals is free except for mooring, dockage, wharfage, storage, or use of canal equipment or facilities for which a permit is required. Detailed data regarding movement through the New York State Canal System may be obtained from the New York State Canal Corporation, Office of Canals, 200 Southern Boulevard, P.O. Box 189, Albany, NY 12201-0189; telephone (518-471-5011).

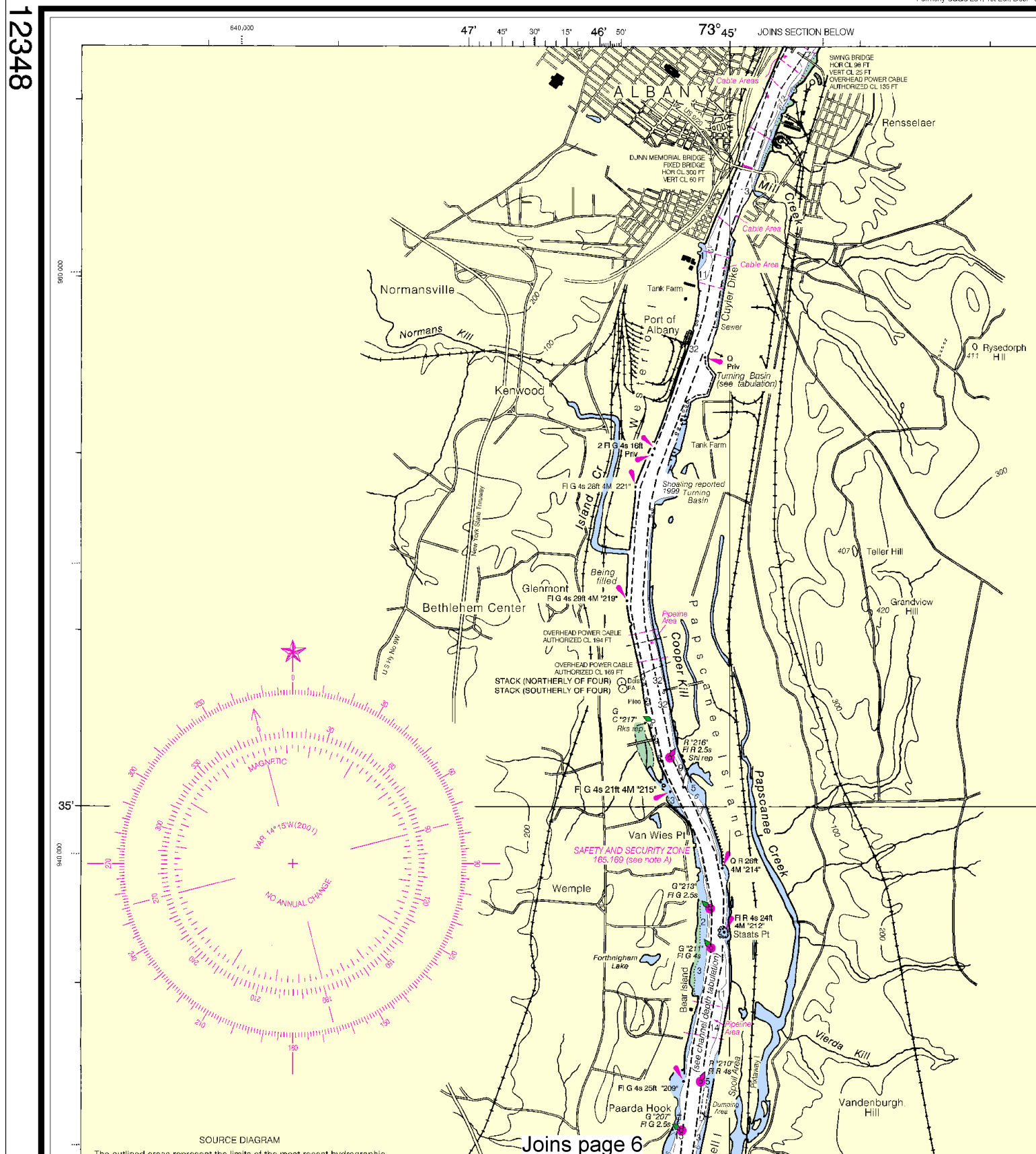
(219) A toll free telephone number (1-800-422-1825) to receive prerecorded messages and for publicizing events and attractions along the canal system is available to mariners within the state of New York.



This nautical chart has been designed to promote safe navigation. The National Ocean Service encourages users to submit corrections, additions, or comments for improving this chart to the Chief, Marine Chart Division (N/CS2), National Ocean Service, NOAA, Silver Spring, Maryland 20910-3282.

Formerly C&GS 284, 1st Ed., Dec. '9

12348



4



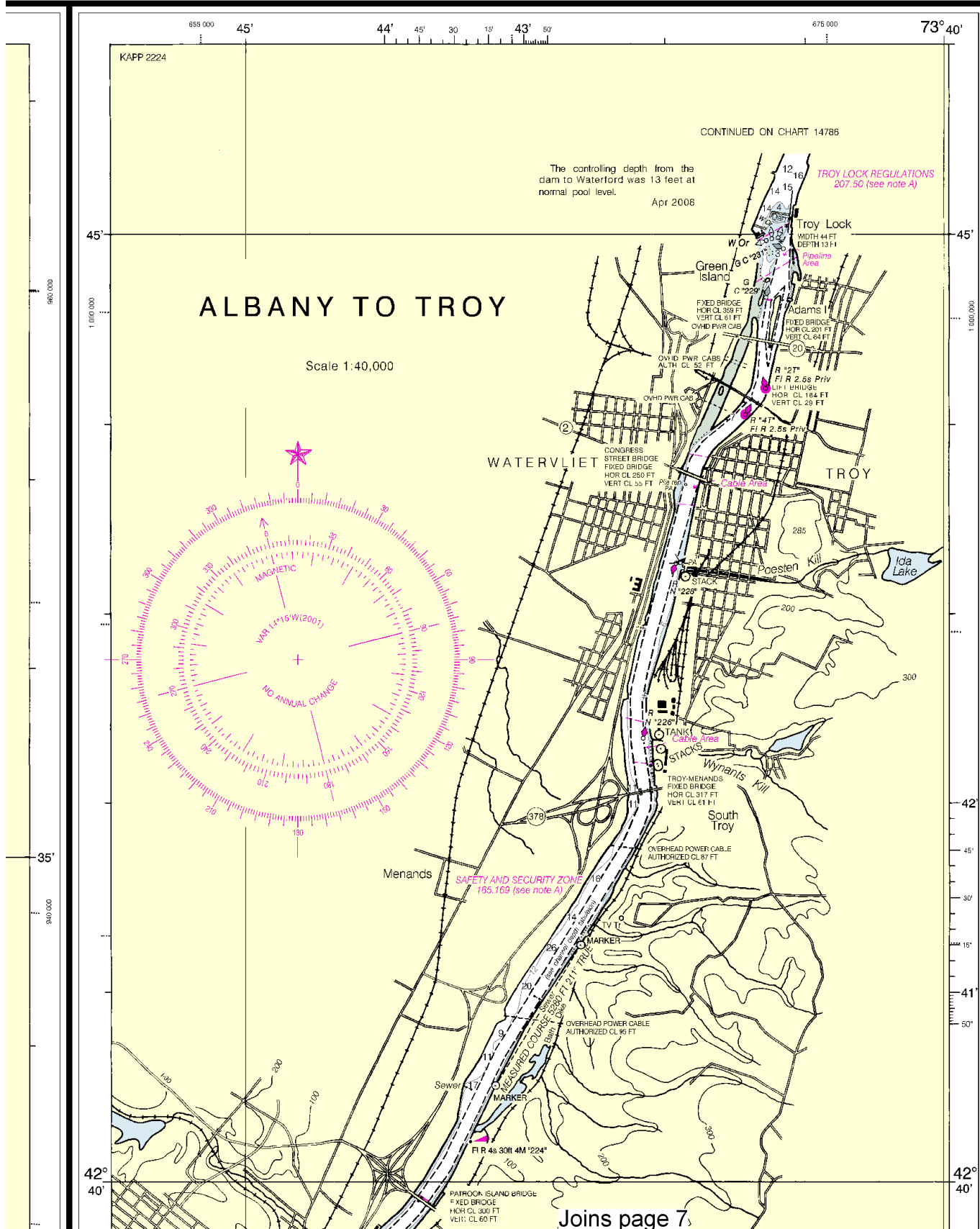
Printed at reduced scale.

~~SCALE 1:40,000~~  
Nautical Miles

See Note on page 5.

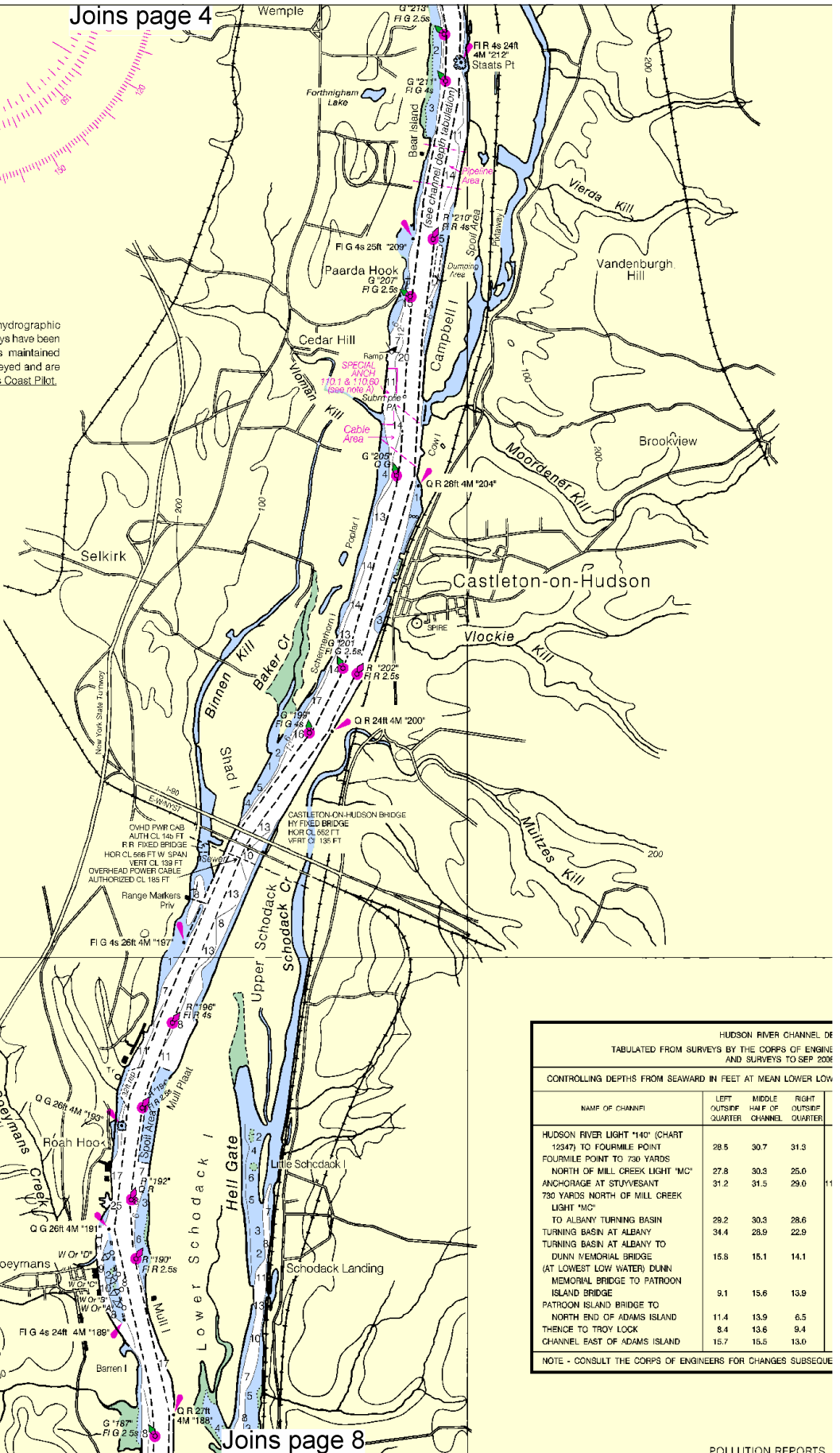
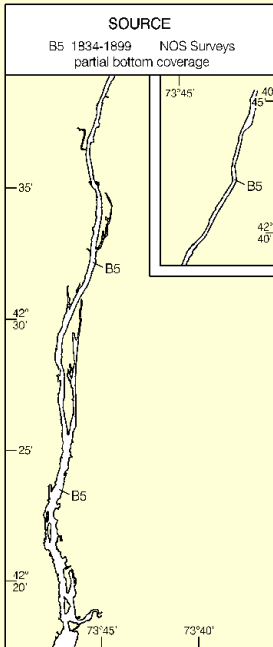


12348



### SOURCE DIAGRAM

The outlined areas represent the limits of the most recent hydrographic survey information that has been evaluated for charting. Surveys have been banded in this diagram by date and type of survey. Channels maintained by the U.S. Army Corps of Engineers are periodically resurveyed and are not shown on this diagram. Refer to Chapter 1, United States Coast Pilot.

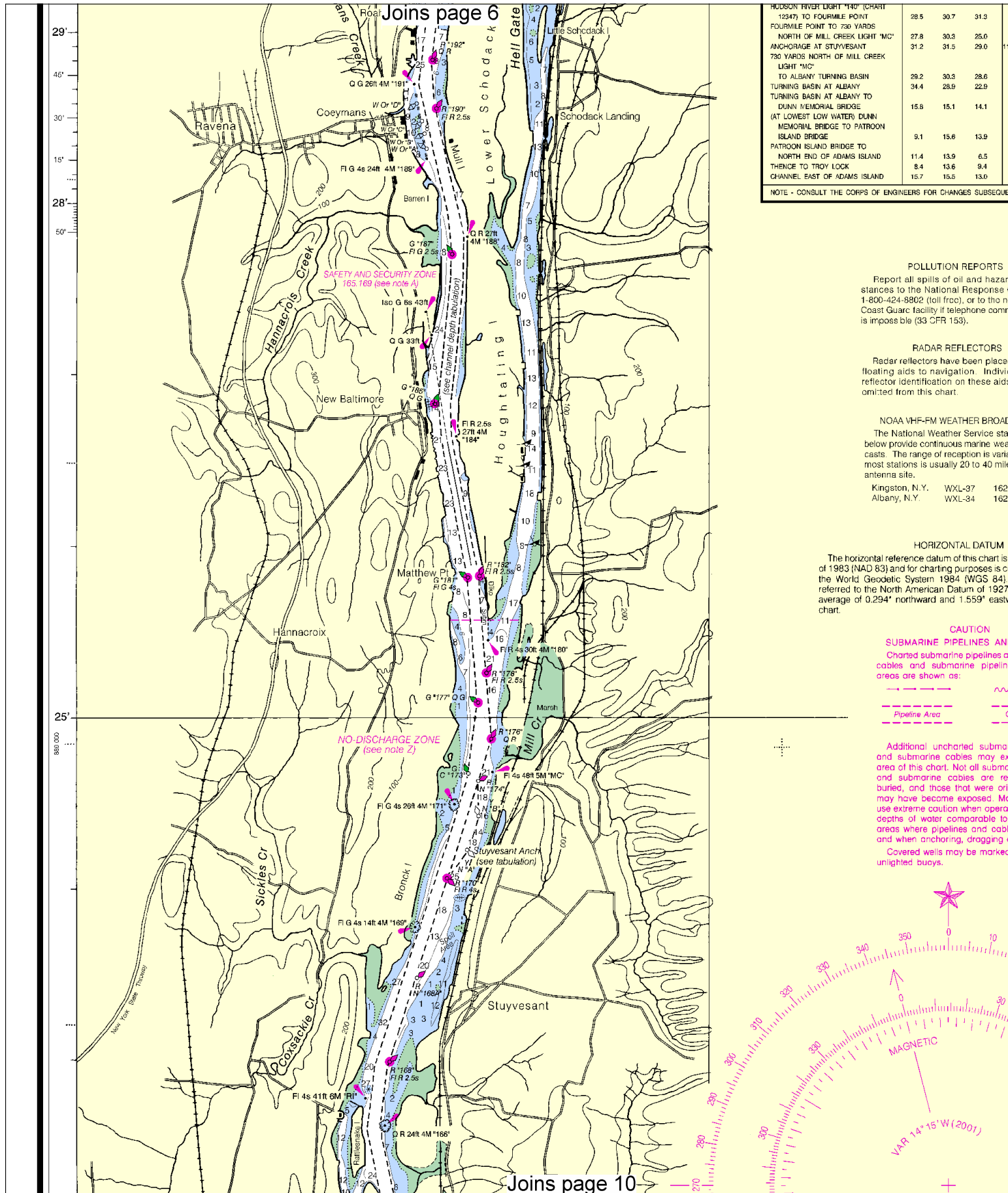


HUDSON RIVER CHANNEL DE TABULATED FROM SURVEYS BY THE CORPS OF ENGINE AND SURVEYS TO SEP 2006			
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW			
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER
HUDSON RIVER LIGHT "140" (CHART 12347) TO FOURMILE POINT	28.5	30.7	31.3
FOURMILE POINT TO 730 YARDS NORTH OF MILL CREEK LIGHT "MC"	27.8	30.3	25.0
ANCHORAGE AT STUYVESANT 730 YARDS NORTH OF MILL CREEK LIGHT "MC"	31.2	31.5	29.0
TO ALBANY TURNING BASIN	29.2	30.3	28.6
TURNING BASIN AT ALBANY	34.4	28.9	22.9
TURNING BASIN AT ALBANY TO DUNN MEMORIAL BRIDGE	15.8	15.1	14.1
(AT LOWEST LOW WATER) DUNN MEMORIAL BRIDGE TO PATROON ISLAND BRIDGE	9.1	15.6	13.9
PATROON ISLAND BRIDGE TO NORTH END OF ADAMS ISLAND	11.4	13.9	6.5
THENCE TO TROY LOCK	8.4	13.6	8.4
CHANNEL EAST OF ADAMS ISLAND	15.7	15.5	13.0

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT







7.8-08	400	1.5	32
7-08	400	7.0	32
11-01:9-04:10-05:7-08	400	0.4	32
5.6,7-08	400-500	12.1	32
5-08	600	0.3	32
5.6-08	300-400	0.9	27-32
6-08	616-400	1.7	14
5.6-08	400-200	5.3	14
5-08	800-45	0.3	14
5-08	146	6.4	14

ADJUNCT TO THE ABOVE INFORMATION

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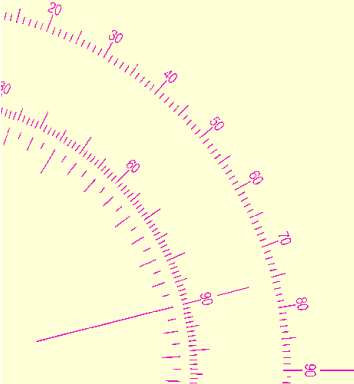
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IND CABLES  
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originally buried  
Mariners should  
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to their draft in  
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Joins page 7



UNITED STATES - EAST COAST  
NEW YORK

HUDSON RIVER  
COXSACKIE TO TROY

Mercator Projection  
Scale 1:40,000 at Lat. 42°31'

North American Datum of 1983  
(Would Geodetic System 1984)

SOUNDINGS IN FEET  
AT HUDSON RIVER DATUM  
(Mean lower low water during lowest river stages)

TIDAL INFORMATION

Place		Height referred to datum of soundings (MLLW)			
Name	(LAT/LONG)	Mean Higher High Water	Mean High Water	Mean Low Water	Extreme Low Water
Coxsackie	(42°21'N/73°48'W)	feet	feet	feet	feet
New Baltimore	(42°27'N/73°47'W)	----	4.1	0.2	-3.0
Castleton-on-Hudson	(42°32'N/73°46'W)	----	4.5	0.4	-3.0
Albany	(42°39'N/73°45'W)	----	4.4	0.1	-3.0
Troy	(42°44'N/73°42'W)	----	4.6	0.0	-3.0
			4.7	0.0	-2.5

(11/00)

ABBREVIATIONS (For complete list of Symbols and Abbreviations, see Chart No. 1.)

Aids to Navigation (lights are white unless otherwise indicated):

AERO: aeronautical	G: green	Mo: morse code	R: TR: radio tower
Al: alternating	IQ: interrupted quick	N: nun	Rat: rotating
B: black	Is: isophase	OBSC: obscured	s: seconds
Bn: beacon	LT: HO: lighthouse	Oc: occulting	SEC: sector
C: can	M: nautical mile	Or: orange	S: M: statute miles
DIA: diaphone	m: minutes	Q: quick	VQ: very quick
F: fixed	MICRO: TR: microwave tower	R: red	W: white
Fl: flashing	Mkr: marker	Ra: Ref: radar reflector	WHIS: whistle
		R: Bn: radiobeacon	Y: yellow

Bottom characteristics:

Blds: boulders	Co: coral	gy: gray	Oys: oysters	so: soft
bk: broken	G: gravel	h: hard	Rk: rock	Sh: shells
Cy: clay	Grs: grass	M: mud	S: sand	sy: sticky

Miscellaneous:

AUTH: authorized	Obstr: obstruction	PD: position doubtful	Subm: submerged
ED: existence doubtful	PA: position approximate	Rep: reported	

(2) Wreck, rock, obstruction, or shoal swept clear to the depth indicated.  
(2) Rocks that cover and uncover, with heights in feet above datum of soundings.

HEIGHTS

Heights in feet above Mean High Water.

AUTHORITIES

Hydrography and topography by the National Ocean Service, Coast Survey, with additional data from the Corps of Engineers, and U.S. Coast Guard.

CAUTION

Improved channels shown by broken lines are subject to shoaling, particula

Joins page 11

29'  
45'  
30'  
15'  
28'  
50'

25'  
850 000



DIA diaphanous  
 F fixed  
 FI flashing  
 Q quick  
 R red  
 Ra Ref radar reflector  
 R Bn radiobeacon  
 VQ very quick  
 W white  
 WHS whistle  
 Y yellow

Bottom characteristics:

Blds boulders  
 bk broken  
 Cy clay  
 Co coral  
 G gravel  
 Gns grass  
 gy gray  
 h hard  
 M mud  
 Oys oysters  
 Rk rock  
 S sand  
 so soft  
 Sh shells  
 sy sticky

Miscellaneous:

AUTH authorized  
 ED existence doubtful  
 (2) Wreck, rock, obstruction, or shoal swept clear to the depth indicated.  
 (2) Rocks that cover and uncover, with heights in feet above datum of soundings.

HEIGHTS

Heights in feet above Mean High Water.

AUTHORITIES

Hydrography and topography by the National Ocean Service, Coast Survey, with additional data from the Corps of Engineers, and U.S. Coast Guard.

CAUTION

Improved channels shown by broken lines are subject to shoaling, particularly at the edges.

CAUTION

Temporary changes or defects in aids to navigation are not indicated on this chart. See Notice to Mariners. During some winter months or when endangered by ice, certain aids to navigation are replaced by other types or removed. For details see U.S. Coast Guard Light List.

PLANE COORDINATE GRID

(based on NAD 1927)

New York State Grid, east zone, is indicated by dashed ticks at 10,000 foot intervals.

NOTE A

Navigation regulations are published in Chapter 2, U.S. Coast Pilot 2. Additions or revisions to Chapter 2 are published in the Notice to Mariners. Information concerning the regulations may be obtained at the Office of the Commander, 1st Coast Guard District in Boston, MA or at the Office of the Division Engineer, Corps of Engineers in Waltham, MA. Refer to charted regulation section numbers.

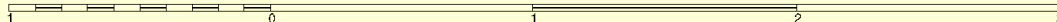
CAUTION

BASCULE BRIDGE CLEARANCES

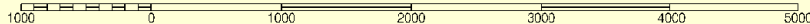
For bascule bridges, whose spans do not open to a full upright or vertical position, unlimited vertical clearance is not available for the entire charted horizontal clearance.

FATHOMS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
FEET	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102
METERS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17

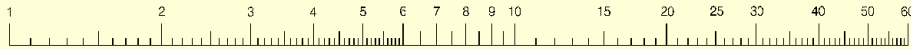
Nautical Miles



Yards



LOGARITHMIC SPEED SCALE



To find SPEED, place one point of dividers on distance run (in any unit) and the other on minutes run. Without changing divider spread, place right point on 60 and left point will then indicate speed in units per hour. Example: with 4.0 nautical miles run in 15 minutes, the spread is 16.0 knots

CAUTION

Boats are warned to stay clear of active riprap surrounding light structures shown

AIDS TO NAVIGATION

Consult U.S. Coast Guard Light List for supplemental information concerning aids to navigation.

SUPPLEMENTAL INFORMATION

Consult U.S. Coast Pilot 2 for important supplemental information.

WARNING

The prudent mariner will not rely solely on any single aid to navigation, particularly on floating aids. See U.S. Coast Guard Light List and U.S. Coast Pilot for details.

SOUNDINGS IN FEET

42° 20'

840,000

840,000



ED. NO. 33



NSN 7642014010380  
NIMA REFERENCE NO. 12XHA12348

U.S. DEPT. OF COMMERCE  
NAUTICAL ADMINISTRATION  
NAVY

Hudson River - Coxsackie to Troy

SOUNDINGS IN FEET - SCALE 1:40,000

12348

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## EMERGENCY INFORMATION

### VHF Marine Radio channels for use on the waterways:

**Channel 6** – Inter-ship safety communications.

**Channel 9** – Communications between boats and ship-to-coast.

**Channel 13** – Navigation purposes at bridges, locks, and harbors.

**Channel 16 – Emergency, distress and safety calls** to Coast Guard and others, and to initiate calls to other vessels. Contact the other vessel, agree to another channel, and then switch.

**Channel 22A** – Calls between the Coast Guard and the public. Severe weather warnings, hazards to navigation and safety warnings are broadcast here.

**Channels 68, 69, 71, 72 & 78A** – Recreational boat channels.

### Distress Call Procedures

1. Make sure radio is on.
2. Select Channel 16.
3. Press/Hold the transmit button.
4. Clearly say: "MAYDAY, MAYDAY, MAYDAY."
5. Also give: Vessel Name and/or Description; Position and/or Location; Nature of Emergency; Number of People on Board.
6. Release transmit button.
7. Wait for 10 seconds – If no response Repeat MAYDAY Call.

### **HAVE ALL PERSONS PUT ON LIFE JACKETS !!**

### Mobile Phones – Call 911 for water rescue.

**Coast Guard Group Activities New York** – 718-354-4120

**Coast Guard New York** – 718-354-4101

**New York State Police** – 877-672-4911

**New York City Police** – 718-765-4100

**Coast Guard Atlantic Area Cmd** – 757-398-6390

**NOAA Weather Radio** – 162.400 MHz, 162.425 MHz, 162.450 MHz, 162.475 MHz, 162.500 MHz, 162.525 MHz, 162.550 MHz.

**Getting and Giving Help** – Signal other boaters using visual distress signals (flares, orange flag, lights, arm signals); whistles; horns; and on your VHF radio. You are required by law to help boaters in trouble. Respond to distress signals, but do not endanger yourself.



## NOAA CHARTING PUBLICATIONS

**Official NOAA Nautical Charts** – NOAA surveys and charts the national and territorial waters of the U.S, including the Great Lakes. We produce over 1,000 traditional nautical charts covering 3.4 million square nautical miles. Carriage of official NOAA charts is mandatory on the commercial ships that carry our commerce. They are used on every Navy and Coast Guard ship, fishing and passenger vessels, and are widely carried by recreational boaters. NOAA charts are available from official chart agents listed at: [www.NauticalCharts.NOAA.gov](http://www.NauticalCharts.NOAA.gov).

**Official Print-on-Demand Nautical Charts** – These full-scale NOAA charts are updated weekly by NOAA for all Notice to Mariner corrections. They have additional information added in the margin to supplement the chart. Print-on-Demand charts meet all federal chart carriage regulations for charts and updating. Produced under a public/private partnership between NOAA and OceanGrafix, LLC, suppliers of these premium charts are listed at [www.OceanGrafix.com](http://www.OceanGrafix.com).

**Official Electronic Navigational Charts (NOAA ENC<sup>®</sup>)** – ENC<sup>®</sup>s are digital files of each chart's features and their attributes for use in computer-based navigation systems. ENC<sup>®</sup>s comply with standards of the International Hydrographic Organization. ENC<sup>®</sup>s and their updates are available for free from NOAA at [www.NauticalCharts.NOAA.gov](http://www.NauticalCharts.NOAA.gov).

**Official Raster Navigational Charts (NOAA RNC<sup>™</sup>)** – RNC<sup>™</sup>s are geo-referenced digital pictures of NOAA's charts that are suitable for use in computer-based navigation systems. RNC<sup>™</sup>s comply with standards of the International Hydrographic Organization. RNC<sup>™</sup>s and their updates are available for free from NOAA at [www.NauticalCharts.NOAA.gov](http://www.NauticalCharts.NOAA.gov).

**Official BookletCharts<sup>™</sup>** – BookletCharts<sup>™</sup> are reduced scale NOAA charts organized in page-sized pieces. The "Home Edition" can be downloaded from NOAA for free and printed. The Internet address is [www.NauticalCharts.gov/bookletcharts](http://www.NauticalCharts.gov/bookletcharts).

**Official PocketCharts<sup>™</sup>** – PocketCharts<sup>™</sup> are for beginning recreational boaters to use for planning and locating, but not for real navigation. Measuring a convenient 13" by 19", they have a 1/3 scale chart on one side, and safety, boating, and educational information on the reverse. They can be purchased at retail outlets and on the Internet.

**Official U.S. Coast Pilot<sup>®</sup>** – The Coast Pilots are 9 text volumes containing information important to navigators such as channel descriptions, port facilities, anchorages, bridge and cable clearances, currents, prominent features, weather, dangers, and Federal Regulations. They supplement the charts and are available from NOAA chart agents or may be downloaded for free at [www.NauticalCharts.NOAA.gov](http://www.NauticalCharts.NOAA.gov).

**Official On-Line Chart Viewer** – All NOAA nautical charts are viewable here on-line using any Internet browser. Each chart is up-to-date with the most recent Notices to Mariners. Use these on-line charts as a ready reference or planning tool. The Internet address is [www.NauticalCharts.gov/viewer](http://www.NauticalCharts.gov/viewer).

**Official Nautical Chart Catalogs** – Large format, regional catalogs are available for free from official chart agents. Page size, state catalogs are posted on the Internet and can be printed at home for free. Go to <http://NauticalCharts.NOAA.gov/mcd/ccatalogs.htm>.

**Internet Sites:** [www.NauticalCharts.NOAA.gov](http://www.NauticalCharts.NOAA.gov), [www.NOAA.gov](http://www.NOAA.gov), [www.TidesandCurrents.NOAA.gov](http://www.TidesandCurrents.NOAA.gov), [www.NOS.NOAA.gov](http://www.NOS.NOAA.gov).